

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method in a computer system for providing dynamic network addresses for devices associated with users, the method comprising:

receiving a request to translate a domain name into a network address associated for communicating with a device;

~~identifying a dynamic address name~~determining a user identifier associated with the received domain name;

sending to a dynamic address system the ~~identified dynamic address name~~determined user identifier, the dynamic address system having a mapping from ~~dynamic address names~~user identifiers to network addresses, each device ~~user identifier~~ having a ~~dynamic address name~~ associated with a user, wherein the dynamic address system periodically receives an update for each user that comprises a current network address of a device through which the user is accessible and wherein upon receiving the update, the dynamic address system associates the received current network address with the user identifier associated with the user and register their address with the dynamic address system;

receiving from the dynamic address system ~~an the current network address for the identified dynamic address name~~associated with the determined user identifier; and

sending the received current network address in response to the request to translate~~as the address for the device associated with the domain name~~.

2. (Currently Amended) The method of claim 1 wherein the dynamic address system supports instant messaging and the ~~dynamic address name~~user identifier identifies a user of the instant messaging system, ~~the user being a device associated with the address~~.

3. (Original) The method of claim 1 wherein the device is connected to the Internet.

4. (Original) The method of claim 3 wherein the device is a web server.

5. (Currently Amended) The method of claim 1 wherein the network address is an IP address.

6. (Original) The method of claim 1 wherein the computer system is a domain name server.

7. (Original) The method of claim 6 wherein the domain name server is a top-level domain name server.

8. (Original) The method of claim 6 wherein the domain name server is a second-level domain name server.

9. (Currently Amended) The method of claim 1 wherein the sending of the received network address includes sending an indication not to cache the received network address.

10. (Currently Amended) The method of claim 1 wherein the sending of the received address including sending an indicator-indication to cache the received network address for a certain amount of time.

11. (Currently Amended) The method of claim 1 including sending to the dynamic address system authentication information along with the identified-dynamic address-namedetermined user identifier so that the dynamic address system can authenticate the computer system.

12. (Currently Amended) A method in a computer system of ~~a domain name system~~ for mapping domain names to network addresses, the method comprising:
providing to a domain name server a domain name mapping of domain names to intermediate identifiers;
receiving from the domain name server ~~a~~ n ~~intermediate identifier obtained based on the provided domain name mapping in response to a request to translate a domain name to a network address;~~
identifying, from an address mapping of intermediate identifiers to network addresses that is accessed by the computer system and is not ~~provided by a system that is external to the domain name system~~ server, the domain name mapping ~~an intermediate identifier associated with the received domain name;~~
~~identifying from the address mapping an~~ network address associated with the ~~identified~~ received intermediate identifier; and
sending to the domain name server the identified network address as the address of the received ~~domain name~~ intermediate identifier.

13. (Original) The method of claim 12 wherein the intermediate identifier is a telephone number.

14. (Currently Amended) The method of claim 13 wherein the address mapping maps telephone numbers to addresses of servers ~~where~~ having a location such that a call to the telephone number from the location is a local call.

15. (Original) The method of claim 13 wherein the telephone number is part of the domain name.

16. (Original) The method of claim 13 wherein a second-level domain name is a telephone number.

17. (Original) The method of claim 13 wherein a third-level domain name is a telephone number.

18. (Original) The method of claim 13 wherein the telephone number is a parameter of a uniform resource identifier that includes the domain name.

19. (Original) The method of claim 12 wherein the intermediate identifier is a dynamic address name.

20. (Currently Amended) The method of claim 19 wherein the dynamic address name intermediate identifier is a name ~~of~~ associated with a user of an instant messaging system.

21. (Currently Amended) The method of claim 19 wherein the address mapping is providing by ~~an~~ a dynamic address system.

22. (Original) The method of claim 21 wherein the dynamic address system is an instant messaging system.

23. (Currently Amended) A computer-readable medium containing instructions for controlling method in a computer system to provide ~~for providing~~ dynamic addresses for devices, ~~they~~ by a method comprising:

providing to a domain name server that is external to the computer system a dynamic name mapping from device identifiers to dynamic address names to addresses;

receiving from a the domain name server that is external to the computer system a dynamic address name associated with a device obtained based on the provided dynamic name mapping;

identifying from an address mapping of dynamic address names to network addresses that is accessed by the computer system and is not provided to the domain name server, a network address associated with the received dynamic address name ~~from the provided mapping an address to which the received dynamic address name maps~~; and

sending to the domain name server the identified network address,

so that the domain name server can provide the identified network address as an address associated with the device.

24. (Currently Amended) The computer-readable medium ~~method~~ of claim 23 wherein the device identifier is a domain name and the domain name server maps domain names to dynamic address names.

25. (Currently Amended) The computer-readable medium ~~method~~ of claim 23 wherein the device is connected to the Internet.

26. (Currently Amended) The computer-readable medium ~~method~~ of claim 23 wherein the device is a web server.

27. (Currently Amended) The computer-readable medium ~~method~~ of claim 23 wherein the computer system is an instant messaging system.

28. (Currently Amended) The computer-readable medium ~~method~~ of claim 23 including receiving an a new network address for a dynamic address name and updating the address mapping to map the dynamic address name to the new network address.

29. (Currently Amended) The computer-readable medium ~~method~~ of claim 23 wherein the network addresses are IP addresses.

30. (Currently Amended) The computer-readable medium method-of claim 23 wherein the domain name server is a top-level domain name server.

31. (Currently Amended) The computer-readable medium method-of claim 23 wherein the domain name server is a second-level domain name server.

32. (Currently Amended) A method in a computer system of a domain name system for providing dynamic addresses for resources, the method comprising:

a process domain name component configured to receive receiving a uniform resource identifier having a parameter that identifies a resource;

a dynamic address name table component configured to identify identifying a dynamic address name associated with the parameter;

a dynamic address system communication component configured to send sending to a dynamic address system that is external to the domain name system the identified dynamic address name, the dynamic address system having a mapping from dynamic address names to network addresses wherein resources have a dynamic address name and have their network address registered with the dynamic address system and configured to receive;

receiving from the dynamic address system an a network address for the identified dynamic address name; and

a response component configured to send sending the received network address as the address for the resource identified by the parameter.

33. (Currently Amended) The system method-of claim 32 wherein the resource is a device connected to the Internet.

34. (Currently Amended) The system method-of claim 32 wherein the computer domain name system is a web site.

35. (Currently Amended) The system method-of claim 34 wherein the uniform resource identifier is received after a domain name server directs a resolution request for an address to the ~~computer-domain name~~ system.

36. (Currently Amended) The system method-of claim 35 wherein the domain name server is a second-level domain name server.

37. (Currently Amended) The system method-of claim 35 wherein the domain name server is a top-level domain name server.

38. (Currently Amended) The system method-of claim 32 wherein the network address is an IP address.

39. (Currently Amended) The system method-of claim 32 wherein the dynamic address system is an instant messaging system and the dynamic address name identifies a web site that registered its address with the instant messaging system.

40-72. (Cancelled)